	OL OITE	CONFIDENTIAL
		September 10, 1957
	Re: Contract RE	-79, T.O. 7
Dear		
	Estimated Cost Fi	xed Fee Estimated Price \$6,486.00
Phase B	Estimated Cost Fi	
ML 7		
It is r December 15,		on of the proposed work.
It is r December 15, This date is from the cli GFE equipmen	1957 to permit completi predicated upon receivi ent on or prior to Octob it as follows:	ct date be extended to on of the proposed work. ng transistor amplifiers er 1, 1957, and additional
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PROPOSED CHANGE IN SCOPE OF PHASE B
OF TASK ORDER 7
SEPTEMBER 10, 1957

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1/ B PY	r	7 . M F	71 117

Engineer

Engineering Assistant 300 hrs. Draftsman 40 hrs.	
TOTAL DIRECT LABOR	
OVERHEAD -	
TOTAL DIRECT LABOR AND OVERHEAD	
OTHER DIRECT COSTS	
Reproduction and Photographs	
TOTAL ESTIMATED COST	
FEE -	
TOTAL ESTIMATED PRICE	\$6,486.00

140 hrs.

\* Figures rounded to nearest dollar



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# COST BREAKDOWN\* PROPOSED PHASE E TO TASK ORDER 7 SEPTEMBER 10, 1957

Engineer		hrs.	
Engineer	300	hrs.	
Draftsman	300	hrs.	

TOTAL DIRECT LABOR

OVERHEAD -

DIRECT LABOR

TOTAL DIRECT LABOR AND OVERHEAD

OTHER DIRECT COSTS

Reproduction

TOTAL ESTIMATED COST

FEE -

TOTAL ESTIMATED PRICE

\* Figures rounded to nearest dollar

\$5,805.00

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TECHNICAL INFORMATION MEMORANDUM
CHANGE IN SCOPE OF PHASE B OF
TASK ORDER 7
SEPTEMBER 10, 1957

The increased scope of the work under Phase B consists of two general areas of effort:

- Determination of Filter-Detector Combination
   Bandpass Characteristics,
- 2. Amplification of System Tests

In the course of development and production of the CS-3, and CS-3A systems, changes were made in requirements necessitating changes in the systems. It now seems desirable to furnish a more thorough system test than originally anticipated.

1. Determination of Filter-Detector Combination Band-Pass Characteristics for Bands A, B, C, and D.

formed measurements on filter-detector bandpass characteristics. On the basis of results,
it was decided to use bias on the detector.
With bias the bandpass characteristic will be
different, and new measurements will be required.

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One filter for each band will be measured in combination with one crystal detector. Ten frequencies per band will be measured. The data will be submitted in graph form. In addition, two filters will be spot checked with two different crystal detectors.

#### 2. Amplification of System Tests

The CS-3A system will be set up in the laboratory utilizing cables constructed for the system at their maximum length. The tests to be performed will be comprehensive compared to those called for under the original scope of Phase B.

Signal inputs will be applied directly to the filters for bands A, B, C, and B, using GFE signal generators listed in the attached letter. For band E, the generator will feed the detector assembly as no filter exists. Sensitivity measurements will be made to determine 10% and 100% recording level requirements (recording level voltages to be furnished by the client).





Two filters of each type, with each of two different detector assemblies will be measured at three frequencies per band (10% above low frequency cut off, center frequency, and 10% below high frequency cutoff). For band E, measurements will be made as above with two detector assemblies feeding the generator directly into the detector. One filter detector combination will be checked at low, center, and high DC power voltage.

Tests will be made to determine if, in conjunction with the system, the VA-5 amplifier performs to its specifications. For this test, between six and ten amplifiers will be investigated to assure results based on sufficient sampling.

The system will be tried with at least two recorders, two different power supplies, and two activity amplifiers. A suitable way of performing this will be to freeze all variables, replace the equipment, then check to see if there is a variation in operation.



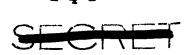
- 3 -

The complete system test will be made using half of a dual rack assembly. Contractor feels that no interference problems will arise when the other half of the rack is placed into operation.

In general, all tests will be made with a 2 usec pulse at 1000 cps, generators permitting. Spot checks will be made at rates of 30 cps. and 6000 cps.

The CS-3 system is identical to the CS-3A except in cabling and in the number of power supplies. The use of two supplies versus one should not affect sensitivity results. For this reason, the complete tests will not be run on the CS-3 system. The system will be set up and spot measurements made to determine if the system operates the same as the CS-3A system.

The Test Bench Junction Box System will be tested in the same manner as the CS-3 System.





#### TECHNICAL INFORMATION MEMORANDUM FOR PROPOSED PHASE E OF TASE ORDER 7 SEPTEMBER 10, 1957

	propose to prepare an installation	
ļ	manual for the CS-3 and CS-3A (Dual and Single Rack). A pre-	
•	liminary outline for the manual is attached.	
	have been designing and manufactur-	
:	ing components of the CS-3 and associated systems. However,	
	the company has been involved only with component parts of the	
1	system. At this time, it seems advisable for	
	to amplify the scope of the work to prepare interconnect-	2
4	ing block diagrams and schematics for the systems, and to pre-	
	pare information for the installation and test of the systems.	
	Changes in the system during the design and manufacturing	
	stages have made obsolete many of the drawings and information	
	prepared by the client. In addition, information is lacking	
	on the actual installation of the operating systems and on	
	the use of the Test Bench Junction Box System.	
	It is also proposed that check	

made in the system after preparation of the drawings.



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The preparation of the installation manual will be patterned after the attached outline. Extensive use will be made of drawings and photographs to enable the user to most expeditiously install and test the equipment.

The section of the manual on the installation of the CS-3A system will be more comprehensive than the section on the CS-3 system. There are only a few basic differences between the systems and for this reasons, much of the information on the CS-3A will be applicable to the CS-3 system.

A section will be included showing the interconnection of the Test Bench Junction Box System. An explanation of the capabilities of the Test Bench Junction Box and its instrumentation will be given.

	has prepared d	rafting information
under the existing contra	ct sufficient to	permit reordering
of any item constructed b	у	The infor-
mation is complete and wi	11 permit constr	uction by any com-
pany. However, the draft	ing information	is on particular
items and does not cover	assembly of any	two items (i.e., a
cable and a panel.)		proposes to work
with the clients represen	tative to supply	additional infor-
mation required for reord	ering of system	assemblies.





All material furnished will be in the form of one copy which may be reproduced, and one blueline copy.



### OUTLINE OF INFORMATION TO BE INCLUDED IN INSTALLATION MANUAL

#### I. CS-3A System

- A. Description of System
  - 1. Electrical Functions
  - 2. Physical Layout
- B. Equipment Lists
  - 1. Equipment Furnished with System
  - 2. Equipment Required But Not Furnished With System
- C. Specifications
  - 1. Frequency Range
  - 2. Type of Received Signal
  - 3. Signal Sensitivity
  - 4. Input Power
  - 5. Size
  - 6. Weight
- D. Installation
  - 1. Mounting Racks to Frame
  - 2. Installing Units in Rack
  - 3. Installing Cables

#### II. CS-3 Dual Rack System

- A. Description of System
  - 1. Electrical Functions
  - 2. Physical Layout
- B. Equipment Lists
  - 1. Equipment Furnished with System
  - 2. Equipment Required But Not Furnished With System



#### II. CS-3 Dual Rack System (cont.)

- C. Specifications
  - 1. Frequency Range
  - 2. Type of Received Signal
  - 3. Signal Sensitivity
  - 4. Input Power
  - 5. Size
  - 6. Weight

#### D. Installation

- 1. Mounting Racks to Frame
- 2. Installing Units in Rack
- 3. Installing Cables

#### III. CS-3A Single Rack System

- A. Description of System
  - 1. Electrical Functions
  - 2. Physical Layout

#### B. Equipment Lists

- 1. Equipment Furnished with System
- 2. Equipment Required But Not Furnished with System

#### C. Specifications

- 1. Frequency Range
- 2. Type of Received Signal
- 3. Signal Sensitivity
- 4. Input Power
- 5. Size
- 6. Weight

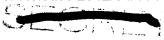
#### D. Installation

- 1. Mounting Racks to Frame
- 2. Installing Units in Rack
- 3. Installing Cables

#### IV. Test Bench Junction Box System

- A. Description of System
  - 1. Electrical Functions
  - 2. Physical Layout





- IV. Test Bench Junction Box System (cont.)
  - 3. Equipment Lists

- 1. Equipment Furnished with System
- 2. Equipment dequired But Not Wornished with System
- C. Operation of System
  - 1. Interconnection of designment
  - 2. Use of Tanel Instrumentation



•	GCUTTL'I	
	September 12, 1957	
		2
	Re: Contract RD-79, T.O. 7	
	Dear	2
	Please amend our proposal for Phase E of Task Order 7 Contract RD-79 submitted September 10, 1957 as follows	:
		:
	7 Contract RD-79 submitted September 10, 1957 as follows OUTLINE OF INFORMATION TO BE INCLUDED IN INSTALLATION MANUAL	e e e
	OUTLINE OF INFORMATION TO BE INCLUDED  IN INSTALLATION WANUAL  Add: I E. will furnish information on the minimum requirements necessary to place the equipment in operation and the	<i>1</i> 77)
	OUTLINE OF INFORMATION TO BE INCLUDED  IN INSTALLATION WANUAL  Add: I E. will furnish information on the minimum requirements necessary to place the equipment in operation and the definition of control functions not otherwise described.	<i>1</i> 77)
	OUTLINE OF INFORMATION TO BE INCLUDED  IN INSTALLATION MANUAL  Add: I E. will furnish information on the minimum requirements necessary to place the equipment in operation and the definition of control functions not otherwise described.  II E. Same as I E.	
	OUTLINE OF INFORMATION TO BE INCLUDED  IN INSTALLATION MANUAL  Add: I E. will furnish information on the minimum requirements necessary to place the equipment in operation and the definition of control functions not otherwise described.  II E. Same as I E.  III E. Same as I E.	
	OUTLINE OF INFORMATION TO BE INCLUDED  IN INSTALLATION MANUAL  Add: I E. will furnish information on the minimum requirements necessary to place the equipment in operation and the definition of control functions not otherwise described.  II E. Same as I E.  III E. Same as I E.	<i>1</i> 775
	OUTLINE OF INFORMATION TO BE INCLUDED  IN INSTALLATION MANUAL  Add: I E. will furnish information on the minimum requirements necessary to place the equipment in operation and the definition of control functions not otherwise described.  II E. Same as I E.  III E. Same as I E.	
	OUTLINE OF INFORMATION TO BE INCLUDED  IN INSTALLATION MANUAL  Add: I E. will furnish information on the minimum requirements necessary to place the equipment in operation and the definition of control functions not otherwise described.  II E. Same as I E.  III E. Same as I E.  Tours very truly,	

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STANDARDIZED	RECEIPT	FORM	FOR	USE	IN	TRANSMITTING	"CLASSIFIED"	MATERIAL

0:		
	***************************************	

Re: Receipt of CLASSIFIED Material

Original to be signed personally by the recipient and returned to sender. Duplicate to be retained by the recipient addressed. Triplicate retained by sender for suspense file.

I have personally received from (serier)

(sender's address)

the CLASSIFIED documents as identified below. I assume full responsibility for the safe handling, storage, and transmittal elsewhere of these documents in accordance with existing regulations governing the handling of CLASSIFIED material. The CLASSIFIED material, including enclosures and attachments, is identified as follows: (In identifying CLASSIFIED material, avoid any reference which might cause the receipt form to become classified)

, C, R	:Description, Nature*(letter, :report, Ref.or File No., etc)	: Dated :	From	Addressed: To	: Date
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SO: Signed Original

CC: Carbon Copy

PC: Photostat Copy

TC: Typed Copy

9/16/59

(Date)

Bignature)

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STANDARDIZED RECEIPT FORM FOR USE IN TRANSMITTING "CLASSIFIED" MATERIAL 25X1 TO: RE: Receipt of CLASSIFIED Material Original to be signed personally by the recipient and returned to sender. 25X1 Duplicate to be retained by the recipient addressed. Triplicate retained by sender for suspense file. 25X1 I have personally received from (sender) (sender's address) the CLASSIFIED documents as identified below. I assume full responsibility for the safe handling, storage, and transmittal elsewhere of these documents in accordance with existing regulations governing the handling of CLASSIFIED material. The CLASSIFIED material, including enclosures and attachments, is identified as follows: (In identifying CLASSIFIED material, avoid any reference which might cause the receipt form to become classified) Addressed Class: - : Description, Nature\*(letter,: Date S, C, R :report, Ref.or File No., etc): Dated From 25X1-1 orig and 1 cc letter dated Sept 10, 1957 from DCP to : 9-10-57 re TO 7, plus one orig and 1 cc ea - Tech. Info, : 2 pgs cost breakdowns 25X1 SO: Signed Original 25X1 CC: Carbon Copy (Signature) PC: Photostat Copy TC: Typed Copy (Date) CONFIDENTIAL

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nder	ve personall <u>y received from (s</u> 's address)	erder)			
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(Date)

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## Office Memorandum.

## UNITED STATES GOVERNMENT

SPM 7-630

TO : Chief, Engineering Division, OC

DATE: 18 September 1957

ATTN : Chief, Research and Development Branch FROM : Chief, Supplemental Programs Division, OC

subject: (Contract RD-79, Task Order 7)

**REF** : **ENG** 7-875

- 1. The reference covering a change of scope in Phase B of Task Order 7, and a new proposed Phase E of the subject contract, has been examined and found acceptable. The extension of contract completion to December 15, 1957, is acceptable; however, it is requested that the proposed installation manual under Phase E be expedited to enable this Division to correlate it with associated instruction books from other contractors.
- 2. Additional funds required by , as indicated in the attached proposal, in the amount of \$12,291 are available and may be charged to the 07 category under Allotment #8-7912-50-600.

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Attachment: Proposal

Distribution:

Orig & 1 w/att - Addressee

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ORIG COMP 053 OPI 56 TYPE 02
ORIG CLASS 5 PAGES 18 REV CLASS 5
JUST 22 NEXT REV 20/0 AUTH: HR 10-2

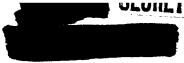
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ATTN:

Chief, Supplemental Programs Division, OC

Chief, KLIMF Activities Branch

Chief, Engineering Division, OC

Contract RD-79 T.O. 7

1. The attached latter together with associated attachments from

D.C. outlines the requirement for a change of scope in Frace B of Task Order 7 and a new proposed Phase E of the subject contract.

- 2. Our cognizant engineers have carefully reviewed the above mentioned technical information memorandums and consider the proposals fair and reasonable. The change of scope under Phase B has become necessary at this time as the result of numerous requested modifications greatly expanding the overall system from its original concept; to check the final overall performance of a complete system with apparatus recently developed by other contractors; to determine if design deficiencies exist and to make necessary modifications before releasing the systems for field use.
- 3. The proposed installation manual, when associated with the instruction books furnished by other contractors supplying system units, will provide a clear and effective guide for technical personnel, especially those in a semi-skilled capacity. Furthermore, the contractor has been requested to add a section under ill E entitled "Operation". This section intended only to cover the minimum requirements necessary to place the equipment in operation and to define control functions not otherwise described.
- 4. It is requested that the appropriate allotment number, to cover the request for additional funds, be furnished this Division in order to complete the necessary contractual negotiations as soon as possible. The contractor is ready to proceed on the increased scope and proposed Phase E immediately, and with the completion of this portion of the indicated task, this work may be brought to a close.

OC-E/R&D-EP/LRG:mjr (12 Sept. 57)

cc: R&D Subject File

MSB

OC-E Chrono

OCOPET

OCCUPATION

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OC-E Chrono R&D Chrono EP Chrono

SEUNE!